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(71)Applicant : JAPAN SYNTHETIC RUBBER CO LTD

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(54) RUBBERY RANDOM COPOLYMER

(57)Abstract:

PURPOSE: To provide the titled copolymer outstanding in heat and oil resistances and adhesivity to metal, useful for automobile parts, etc., constituted of specified composition of respective units of diene monomer, acrylonitrile, acrylic ester and amino group-contg. monomer.

CONSTITUTION: The objective copolymer can be obtained by copolymerization, in an autoclave, between (A) a conjugated diene such as butadiene, (B) a vinyl cyanide such as acrylonitrile, (C) an acrylic ester such as butyl acrylate, and (D) an aromatic amino group-contg. monomer such as N-(4-anilinophenyl) methacrylamide. This copolymer has a number-average molecular weight 40,000-120,000, being constituted of (i) 10-60wt% of a component of formula I (R¹ is H or methyl) (2) 10-40wt% of a second component of formula II (R² is H or methyl), (3) 10-70wt% of a third component of formula III (R³ is H or methyl; R⁴ is 1-8C alkyl), and (4) 0.1-10wt% of a fourth component of formula VI (R⁵, R⁷ are each H, 1-4C alkyl, etc.; R⁹ and R¹⁰ are each H, 1-4C alkyl, etc.; R¹¹ is H, 1-4C alkyl, carboxymethyl, etc., R¹² is H, 1-4C alkyl, phenyl, etc.) or formula V (R¹³, R¹⁴ are each H or 1-4C alkyl).

